

Department of Energy

Richland Operations Office P.O. Box 550 Richland, Washington 99352 December 27, 1993

94-RPS-072

Mr. David B. Jansen
State of Washington
Department of Ecology
P.O. Box 47600
Olympia, Washington 98504-7600

Dear Mr. Jansen:

HANFORD FACILITY DANGEROUS WASTE PART A PERMIT APPLICATION FORM 3, REVISION 4, FOR THE PLUTONIUM-URANIUM EXTRACTION PLANT (WA7890008967) (TSD: TS-2-6)

Enclosed is the Hanford Facility Dangerous Waste Part A Permit Application (Part A) Form 3, Revision 4, for the Plutonium-Uranium Extraction (PUREX) Plant. The PUREX Plant is located in the 200 East Area of the Hanford Facility. This Part A was revised to include two of four areas supporting PUREX Plant deactivation activities: (1) sugar denitration, and (2) minimization of liquid waste by concentration. The other two areas, (3) greater-than 90-day storage of in-plant liquid waste and (4) treatment of plutonium and uranium waste solutions in Tanks D5 and E6, will be addressed through negotiated Hanford Federal Facility Agreement and Consent Order Milestones.

This Part A has been revised to change the process description for sugar denitration in Tanks F15 and F16 to include additional sources of acid waste. The Part A also has been revised to change the process description for the F11 Concentrator to include different sources of in-plant liquid waste.

This Part A revision is needed to proceed with PUREX Plant deactivation efforts and subsequent closure. Details of this revision are specified in the enclosed Form 3 permit application explanation (Enclosure 1).



0034114

Mr. Jansen 94-RPS-072 December 27, 1993

Should you have any questions regarding the PUREX Part A, Revision 4, please contact Mr. C. E. Clark, U.S. Department of Energy, Richland Operations Office, on (509) 376-9333 or Mr. R. C. Bowman, Westinghouse Hanford Company, on (509) 376-4876.

Sincerely,

EAP:CEC

James D. Bauer, Program Manager
Office of Environmental Assurance,
Permits, and Policy
DOE Richland Operations Office

Q & Luch

R. E. Lerch, Deputy Manager Restoration and Remediation Westinghouse Hanford Company

Enclosure:

Plutonium-Uranium Extraction Plant Waste Part A Permit Application Form 3, Revision 4

cc w/enclosure:

D. L. Duncan, EPA

T. M. Michelena, Ecology

D. C. Nylander, Ecology

Administrative Records, H6-08

cc w/o enclosure:

D. R. Butler, Ecology

J. M. Atwood, Ecology

R. C. Bowman, WHC

R. E. Lerch, WHC

S. M. Price, WHC

ENCLOSURE

Please print or type in the unshaded areas only

(fill-in areas are spaced for elite type, i.e., 12 character/inch).																						
	FORM 3	DAN	GERO	OUS WA	ST	Έl	PE	R۱	ΛIΤ	ΑΙ	PP	LI	C.	ATION	 	/STATE I.I		0 0		9	6 7	
FOR OFFICIAL USE ONLY APPLICATION DATE RECEIVED COMMENTS																	_					
-	APPLICATION APPROVED	(mo.,day,& yr.)	+										CC	MMENTS								
L	<u> </u>												···									
ii. FIRST OR REVISED APPLICATION Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number.																						
100	nace an "X" in pplication. If .D. Number in	this is your first app Section I above.	lication ar	nd you already kr	o DO	your	facil	ity's	EPA/	STAT	E I.D). N	uml	ber, or if this is a revised	application,	enter you	r fac	ility's	ΕP	A/S	TATE	:
-	A. FIRST APP	PLICATION (place an	"X" belov	v and provide the	app	ropri	ate :	dataj														
1	<u> </u>	EXISTING FACILITY	(See inst Complet	tructions for defi e item below.)	nitior	of '	exis	ting'	" facil	ity.			ACILITY (Co	omplete ite	m b	elow,	,					
	мо. 0 1		OPERATION	TING FACILITIES ON BEGAN OR T boxes to the left	HE D	OVID ATE	E TI	HE D	ATE (mo., o ON Co	day, OMN	& y	7.) CEC	MO. DAY		FOR NEW PROVIDE (mo., day, TION BEG EXPECTED	THE & y AN (DATI VI OI OR IS	E, PER	4 -		
1		APPLICATION (place		-	e Se	ction	l al	ove	1										****			
		FACILITY HAS AN I												2. FACILI	TY HAS A F	INAL PER	МІТ					
		ES - CODES AND CA			code	s bei	ow	that	best	descri	bes	eacl	ום ר	rocess to be used at the	facility. Ter	n lines are	pros	rided	for :	ente	rina	
<u>,</u>	codes. If r	nore lines are needed cluding its design ca	i, enter th	e code(s) in the	6Dac	e pro	vide	d. II	fapr	0088	will	be	use	d that is not included in t	he list of co	odes belov	v, th	en de	BCri	be t	he	
1	B. PROCESS (DESIGN CAPACITY -	For each	code entered in a	colun	nn A	ente	er the	есар	acity (of th	e pr	oce	ess.								
1	1. AMOUN	T - Enter the amount																				
	2. UNIT OF Only the	MEASURE - For eac units of measure th	h amount at are liste	entered in colun ed below should	nn B(1), e sed.	nter	the	code	from 1	the l	ist o	of u	nit measure codes below	that descri	bes the un	it of	mea	sure	use	ıd.	
			PRO-	APPROPRIAT	LE OF	VITS	OF								PRO-	APPR MEAS	OPR	IATE	UNI	TS (OF.	
		PROCESS	CESS	DESIGN C		R PROCESS APACITY								PROCESS	CESS CODE	DE	SIG	V CAI	PAC	ITY		
	Storage:	D. (S. a.m.) . dm	CALLONS OF							eat NK	ment: ,	T01	GALLO	ue o	ED D	. V	0 B					
	TANK WASTE PIL	R (barrel, drum, etc) E	\$01 \$02 \$03	GALLONS OR I GALLONS OR I CUBIC YARDS	LITEP OR	RS								ACE IMPOUNDMENT	E IMPOUNDMENT TO2 GALLONS PER DAY OR							
		MPOUNDMENT	S04	CUBIC METERS GALLONS OR	•										тоз	LITERS PER DAY						
	Disposal:												GALLONS PER HOUR OR LITERS PER HOUR									
	INJECTION LANDFILL	WELL	D80 D81	GALLONS OR I	e vol	lume								R (Use for physical, chem								
İ				depth of one for OR HECTARE-N	TARE-METER surface impoundments or in											tanks, ciner-						
	OCEAN DIS	LICATION SPOSAL	D82 D83	ACRES OR HEG GALLONS PER LITERS PER DA	DAY	<i>RES</i> OR						ate the	s in II-C.}									
	SURFACE I	MPOUNDMENT	D84	GALLONS OR	LITER	RS																
	UNIT OF M	EACHDE	UNIT OF MEASUR CODE		UNIT OF MEASURE									NT OF ASURE CODE I	INIT OF ME	NIT OF MEASURE				UNIT OF MEASURE CODE		
ŀ	GALLONS.			G	-	LITER	RS P	ER D	AY.					 -				,				
	CUBIC YAR	RDS		C Y	1	METR	RIC 1	ONS	PER	HOUP	₹		ACRE-FEET									
L	GALLONS	PER DAT		G SECTION III (e.	l	LITEF	RS P	ERH	OUR				٠.	H //: A facility has two sto								
F		hold 200 gallons a	nd the ot	her can hold 400	gall	ons.	The	faci	ility a	so ha	s an	inc	ine	rator that can burn up to	20 gallons	per hour.			T.			
١,	N A. PRO-	B. PRO	CESS DES	SIGN CAPACITY	12.	UNIT	r .	FO		L U	1 0	PR ESS	3	B. PROCESS	DESIGN C	APACITY	2.	UNI	-		OR	
N	M CODE I B (from list E above)		AMOUNT			MEA URE	L OFFICIAL			NBEE	(tre	OD!	E ișt	1. AMO					۱-۱			
E	R above)		(ѕреспу)					J.142.1			-	(from li above					(enter code)					_
X-1 S O 2 600 X-2 T O 3 20 1 T O 1 103,600					1 [G				Б							1		r	Τ	П	_
						E	\dagger			6		H					+		\top	T	H	
						υ	\dagger	$\dagger \dagger$		7		$ \cdot $				-	 		\dagger	\dagger	$\dagger \dagger$	
	2 S 0 2		,000		$\dagger \dagger$	G	T	\Box		8		П			T T		T		+	\dagger	\prod	_
	з S 0 5		565			Y	1		\top	9							1		\dagger	\dagger	† †	
	4 T 0 4				$ \cdot $	+	\dagger		+	10	T					·		$ \uparrow $	\dagger	\dagger	╁╼╂	_

Continued from the front.

(I). PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (code "TO4"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

The following are treatment and storage processes for the Plutonium-Uranium Extraction (PUREX) Plant, located in the 200 East Area.

TO1 Tank E5 [5,000 gallon (19,000 liter) design capacity] - mixed waste is treated with NaOH and NaNO, before sending the waste to the Double-Shell Tank (DST)

The concentrator (F11; 2,600 gallon (9,800 liter) design capacityl - Ammoniacal mixed waste was processed in the concentrator with the ammonia distillate going to the 216-A368 Crib before September 1987. From September 1987 to PUREX Plant shutdown in March 1990, ammoniacal waste was collected in tank G7 [15,000 gallon (57,000 liter) design capacityl and treated with NaOH and NaNO, before being transferred to the DST System. During PUREX Plant deactivation, the F11 concentrator will be used to minimize the volume of liquid waste sent to the DST System by evaporation of water from flush solutions (both regulated and nonregulated) with the distillate (nonregulated) being discharged to the atmosphere via the PUREX main stack (291-A-1). The concentrate generated in the F11 concentrator is treated with NaOH and NaNO, in tank F18 [5,000 gallon (19,000 liter) design capacityl before transfer to the DST System. On occasion, the F11 concentrator may be used to evaporate sugar denitrated waste from tanks F15 and F18. Tank-G7 also will be used to treat flush and other waste solutions before transferring them to DST during deactivation. transferring them to DST during deactivation.

Tanks F15 and F16 [each tank has a 5,000 gallon (19,000 liter) design capacity] - The mixed waste is denitrated using sugar and may be sent to the F11 concentrator for volume reduction. Residual liquids will be treated with NsOH and NsNO, in tanks F15, F16, or F18 before being transferred to the DST System. The process design capacity for all treatment vessels is 103,600 gallons (392,000 liters) per day.

TO1, SO2 Tank F18 [5,000 gallon (19,000 liter) design capacity] and tanks U3 and U4 [each with a 8,000 gallon (30,000 liter) design capacity]. The mixed waste is collected from all sections of the PUREX Plant (E-F11 bottoms, other vessels, sumps, sinks, drains, overflows, laboratory waste) and treated with NaOH and NaNO₂ before pering transferred to the DST System. The process design capacity for tank treatment is 103,600 gallons (392,000 liters) per day and the process design capacity for tank storage is 21,000 gallons (79,500 liters).

SO5 The designation SO5 (storage miscellaneous) has been used to indicate that the solid mixed waste on the canyon deck is stored in a containment building subject to the requirements of 40 CFR 265, Subpart DD. The solid waste consists of radioactive contaminated discarded canyon process equipment and jumpers (or isolated components thereof) containing lead and/or cadmium used as weights, counterweights, or radiation shielding. The process design capacity of the storage area on the canyon deck is 565 cubic yards (403 cubic meters).

DESCRIPTION OF DANGEROUS WASTES

- A. DANGEROUS WASTE NUMBER Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describes the characteristics and/or the toxic contaminants of those dangerous wastes.
- 8. ESTIMATED ANNUAL QUANTITY For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis.

 For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. UNIT OF MEASURE For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE CO	DE
POUNDS		KILOGRAMS	

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes that can be described by more than one Waste Number shall be described on the form as follows:

- Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
- In column A of the next line enter the other Dangerous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
- Repeat step 2 for each other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

	Ī					D. PROCESSES													
T-ZE	W.	AS	A. NGEROUS ASTE NO.			B. ESTIMATED ANNUAL QUANTITY OF WASTE		C. UNIT OF MEA- SURE (enter code)		1. PROCESS CODES (enter)									2. PROCESS DESCRIPTION (if a code is not entered in D(1))
X-1	к	0	,	Б	4	900		Р	τ ο	3	D	8	0	1	Τ		Γ	Ī	
X-2	o	C	,	0	2	400		ρ	το	3	D	8	o	<u> </u>	Τ-		[1	
X-3	D	C	,	0	1	100		P	τ ο	3	D	8	0	T	Т	L	l 	l 	
X-4	D	C	,	0	2				TO	3	D	8	0	1	[1	[included with abova

PAGE 2 OF 5

egates (

Continued from page 2, NOTE: Photocopy this page before completing if you have more than 26 wastes to list. I.D. NUMBER (entered from page 1) W A 7 8 9 0 0 0 8 9 6 7 IV. DESCRIPTION OF DANGEROUS WASTES (continued) D. PROCESSES C. UNIT OF MEA-SURE /enter A. N DANGEROUS O WASTE NO. B, ESTIMATED ANNUAL QUANTITY OF WASTE 1. PROCESS CODES 2. PROCESS DESCRIPTION (if a code is not entered in D(1)) (anter) codel P 0 TO: **\$02** <u> Treatment - Chemical/</u> 66,000,000* 0 2 Storage - Tank T C 0 1 C 0 2 P 0 P 0 2 D 0 0 D 0 0 2 ם 0 0 3 10 b 0 ol 11 ĺD 0 0 12 D 0 0 6 13 D lolol 7 14 8 | 0 | 0 | <u>0</u> | 15 D | O | 0 9 10 loloi 1 0 Included with above 17 DO 1 1 P **S05** 18 5,300* Storage - Containment Building W T O 1 19 |D|0|0|6 20 plolols Included with above 21 22 23

* The estimated annual quantities of wasted listed above represent the maximum quantities of solid dangerous waste currently treated and stored at the PUREX Plant. Future closure activities might necessitate an increase in excess of these estimates and a permit application revision could be pursued as required by dangerous waste regulations.

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

Tank E5 contains (1) decladding waste consisting of NH_4F , $(NH_4)_2ZrF_6$, $(NH_4)_2UF_6$, and NH_4NO_3 ; (2) metathesis solutions consisting of KOH and KF; or (3) metathesis rinse and miscellaneous flushes with similar chemical makeups. All streams are treated with NaOH to a pH greater than 12, which consists mainly of NaF, KF, UO_2 , ZrO_2 , NH_3 , NH_4OH , and $NaNO_3$. During deactivation and terminal cleanout, waste and flush solutions will be treated to obtain a pH greater than 12 and $[NO_2]$ greater than 0.011 molar before transferring the waste to storage.

The concentrator (F11) bottoms, containing NH_4NO_3 and NH_4OH or nitric acid or denitrated solution, are transferred to tank F18 or tank G7 and treated with NaOH and NaNO₂.

Tanks F15 and F16 contain acid waste with HNO_3 and possibly $A1(NO_3)_3$, which is treated with sugar, NaOH, and $NaNO_2$.

Tank F18 and tanks U3 and U4 receive miscellaneous waste with a constantly changing $_{2}$ composition consisting mainly of water and $\mathrm{HNO_{3}}$. All waste is treated with NaOH and NaNO₂ to $_{2}$ a pH greater than 12.

The PUREX Plant containment building holds discarded equipment that contain elemental lead and/or elemental cadmium, which is regulated as a solid waste because of the toxicity of the lead and/or cadmium.

}	
V. FACILITY DRAWING	
All existing facilities must include in the space provided on page 6 a scale drawing	of the facility (see instructions for more detail).
VI. PHOTOGRAPHS	
sites of future storage, treatment or disposal areas (see instructions for more detail	
VII. FACILITY GEOGRAPHIC LOCATION This information is	s provided on the attached drawings and photos.
LATITUDE (degrees, minutes, & seconds)	LONGITUDE (degrees, minutes, & seconds)
VIII. FACILITY OWNER	
below.	rm 1, "General Information", place an "X" in the box to the left and skip to Section IX
B. If the facility owner is not the facility operator as listed in Section VII on For	m 1, complete the following items:
1, NAME OF FACILITY'S LEGAL OV	NER 2. PHONE NO. (eres codo & no.)
	<u> </u>
3. STREET OR P.O. BOX	4. CITY OR TOWN 5, ST. 6. ZIP CODE
IX. OWNER CERTIFICATION	
I certify under penalty of law that I have personally examined and on-familiar with timy inquiry of those individuals immediately responsible for obtaining the intorpration aware that there are significant penalties for submitting false information, including	, I believe that the submitted information is true, accurate, and complete. I am
NAME (print or type) SIGNA UPE	DATE SIGNED
John D. Wagoner, Manager	
U.S. Department of Energy Richland Operations Office	Wag my 12/22/93
X. OPERATOR CERTIFICATION	(1)
I certify under penalty of law that I have personally examined and am familiar with t my inquiry of those individuals immediately responsible for obtaining the information aware that there are significant penalties for submitting false information, including	n, I believe that the submitted information is true, accurate, and complete. I am
NAME (print or type) SIGNATURE	DATE SIGNED
SEE ATTACHMENT	

X. OPERATOR CERTIFICATION

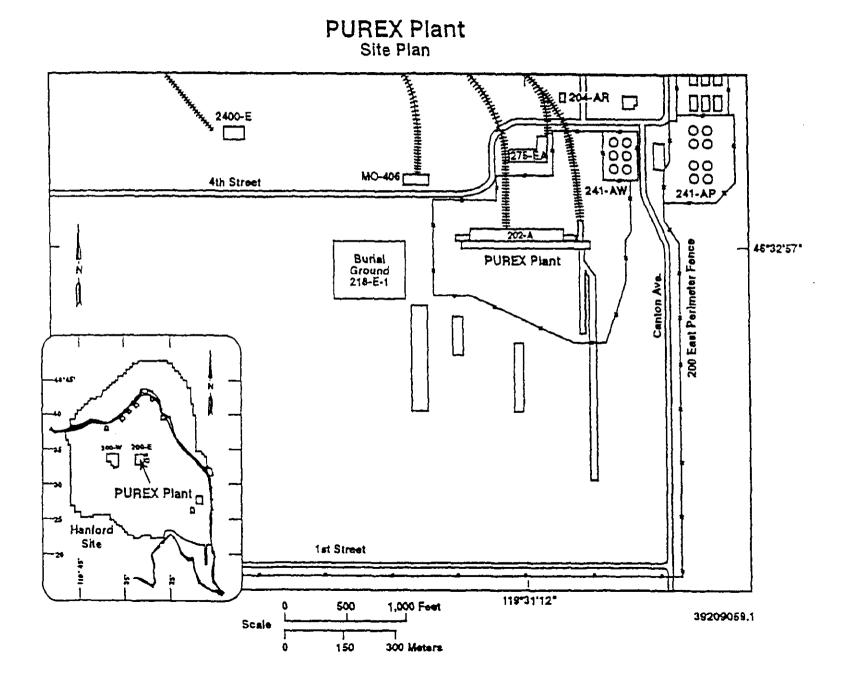
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Ofner/Operator

John D. Wagoner, Manager U.S. Department of Energy Richland Operations Office 12/22/93

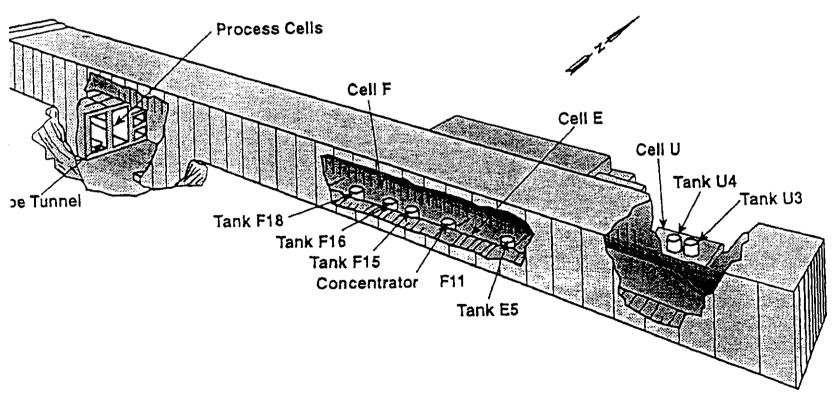
Co-operator

Thomas M. Anderson, President Westinghouse Hanford Company 12///



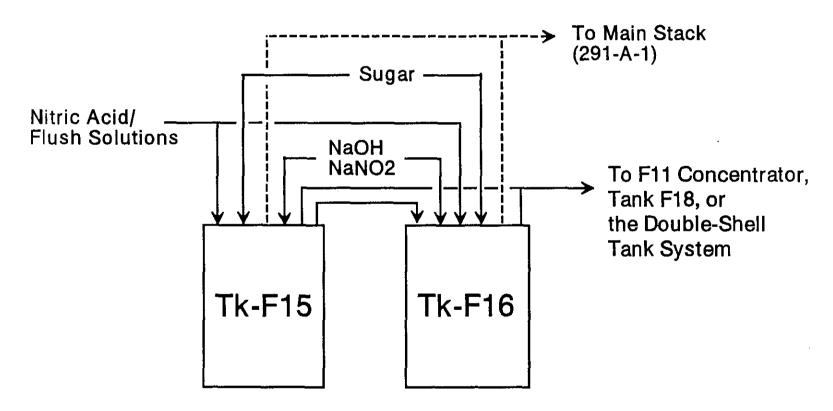
ev. 4, 12/22/93, Page 6 of 2

PUREX Plant Cutaway View (202-A Building)



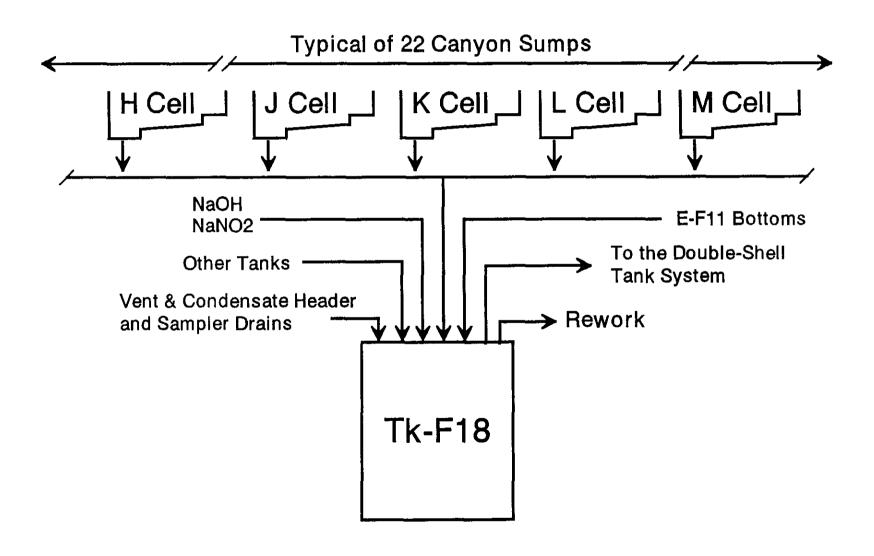
39201061.7

Tanks F15 and F16 Sugar Denitration Waste Stream Flow Diagram

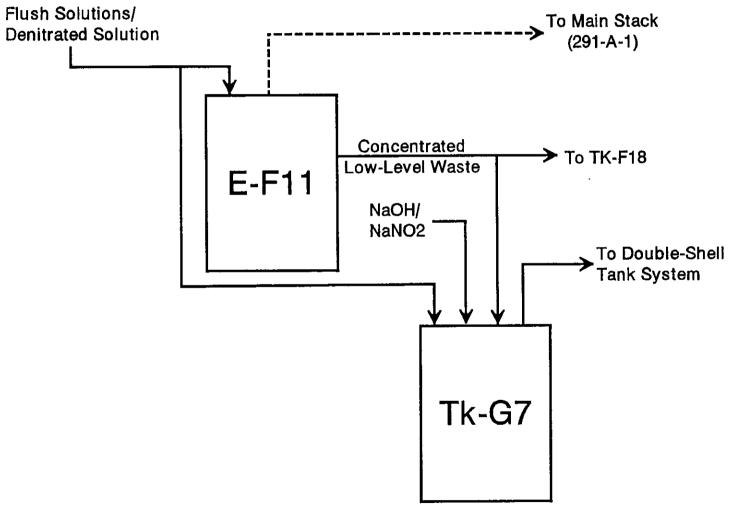


Predominate Chemical Reaction: 12(HNO3) + C12H22O11 -----> 12CO + 6(NO + NO2) + 17H2O

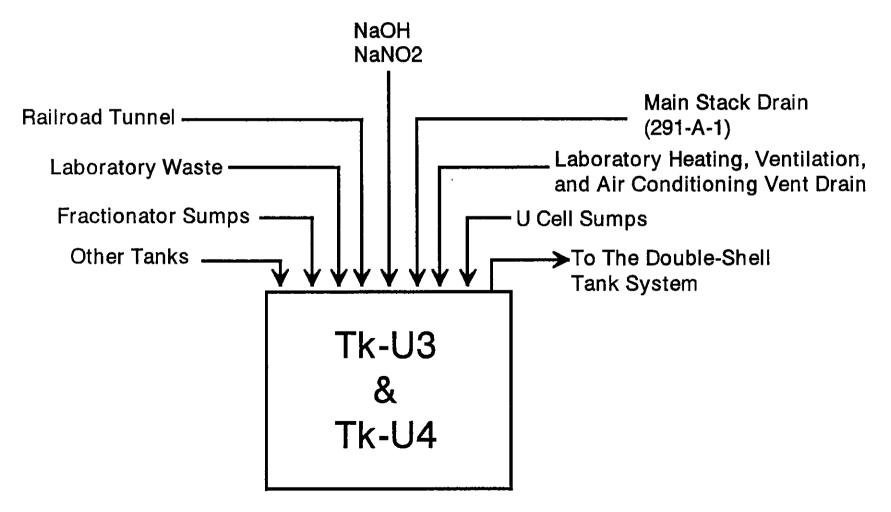
Tank F18 Waste Stream Flow Diagram



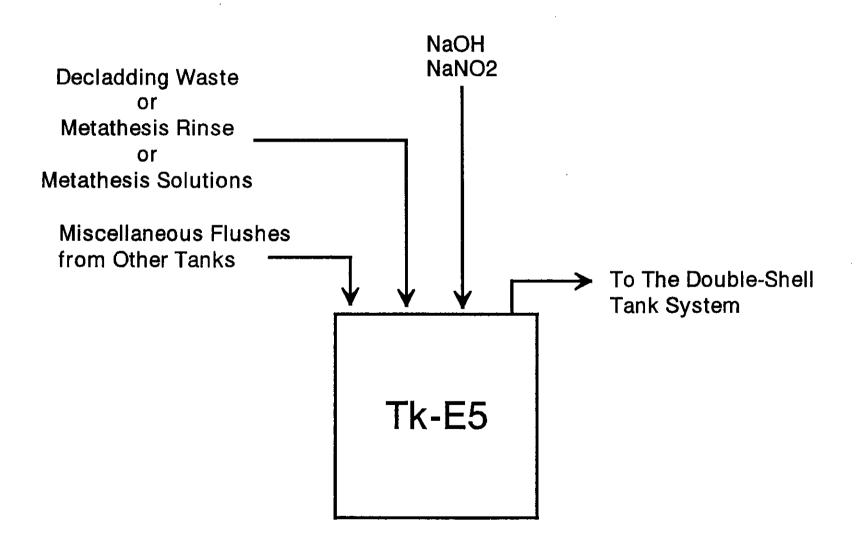
Tank G7 and Concentrator F11 Waste Stream Flow Diagram



Tanks U3 and U4 Waste Stream Flow Diagram



Tank E5 Waste Stream Flow Diagram

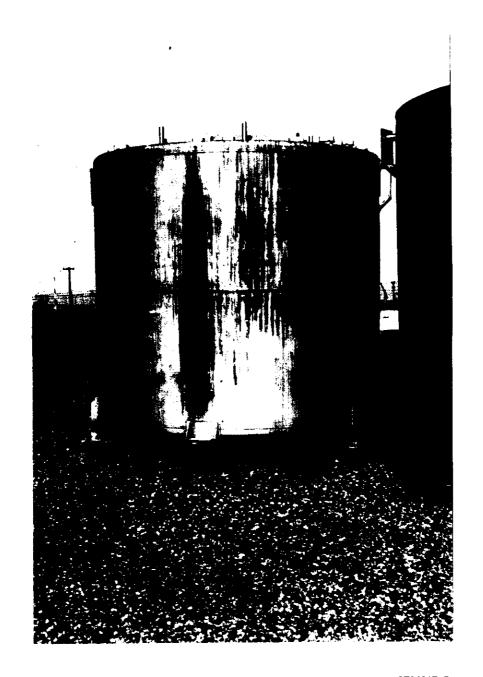


PUREX PLANT (SOUTH SIDE)



46°32'57" 119°31'12" 8706243-4CN (PHOTO TAKEN 1987)

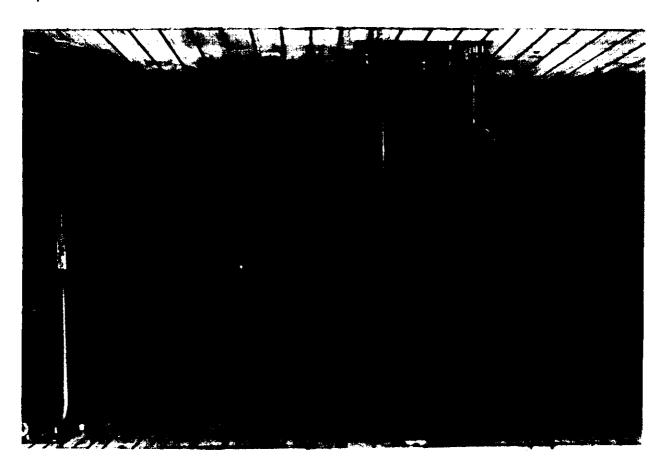
STANDARD 5,000-GALLON TANK (TYPICAL OF E5, F15, F16, AND F18)



8706243-5CN (PHOTO TAKEN 1987)

TANK E5

Pipe Tunnel Wall

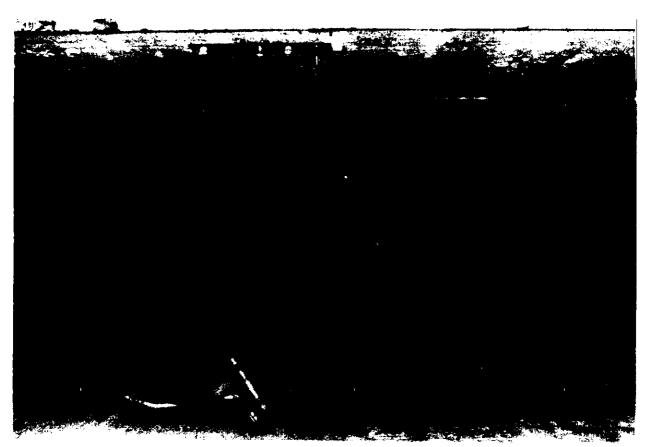


46°32'46" 119°07'58"

099948-38CN (PHOTO TAKEN 1982)

TANK F15 AND TANK F16

Pipe Tunnel Wall

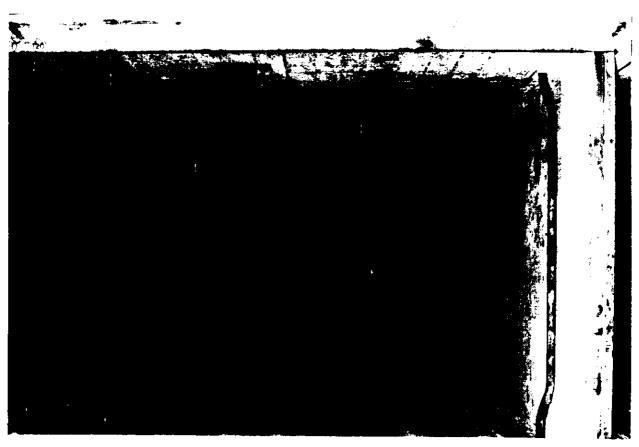


46°32'46" 119°08'00"

099948-71CN (PHOTO TAKEN 1982)

TANK F18

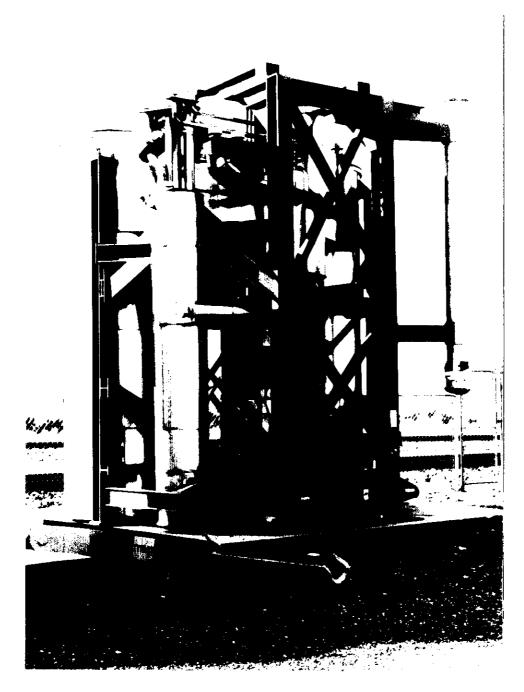
Pipe Tunnel Wall



46°32'46" 119°08'01"

099948-74CN (PHOTO TAKEN 1982)

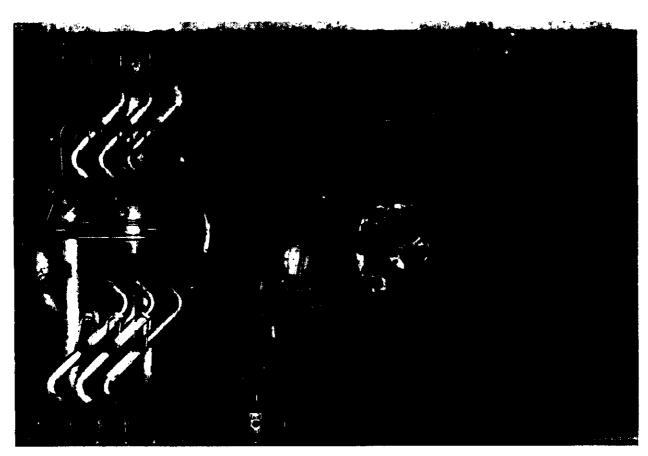
E-F11 CONCENTRATOR



8706243-8CN (PHOTO TAKEN 1987)

E-F11 CONCENTRATOR

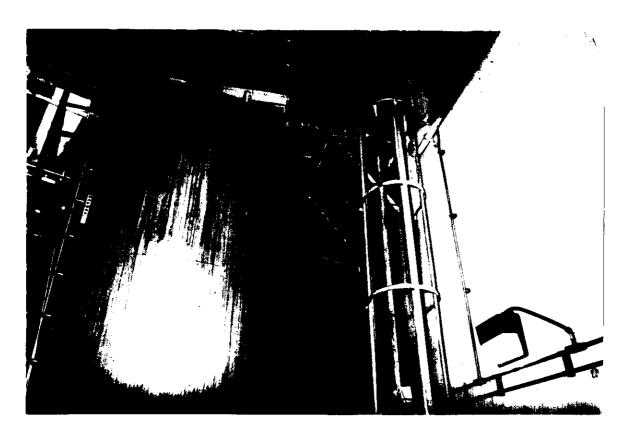
Pipe Tunnel Wall



46°32'46" 119°07'59" 099948-64CN (PHOTO TAKEN 1982)

U CELL

Top of Tank U3 (Typical of Tank U4)



46°32'48" 119°07'56"

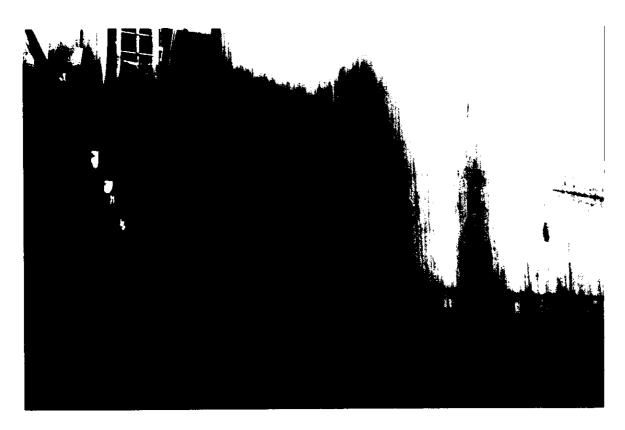
92102839-10CN (PHOTO TAKEN 1992)

U CELL

Bottom of Tanks

Tank U3

Tank U4



46°32'48" 119°07'56"

92102839-7CN (PHOTO TAKEN 1992)

CORRESPONDENCE DISTRIBUTION COVERSHEET

Author

Addressee

Correspondence No.

R. G. Holt, RL R. E. Lerch, WHC (G. D. Cummins, WHC) D. B. Jansen, Ecology

Incoming 9305747 Xref 9360100D

subject: HANFORD FACILITY DANGEROUS WASTE PART A PERMIT APPLICATION FORM 3, REVISION 4, FOR THE PLUTONIUM-URANIUM EXTRACTION PLANT (WA7890008967)

(TSD: TS-2-6)

		INTERNAL DISTRIBUTION		
ipproval	Date	Name	Location	w/at
		Correspondence Control	A3-01	Х
		B. A. Austin	B2-35	
		R. C. Bowman	H6-24	χ
		R. J. Bliss	B3-04	
		R. V. Bowersock	S6-19	
		G. D. Carpenter	H6-30	
		D. J. Carrell	H6-22	χ
		M. W. Cline	H6~24	χ
		B. G. Erlandson	H6-20	Х
		D. G. Hamrick	S6-15	
		D. G. Harlow	S6-17	χ
		G. W. Jackson, Assignee	H6-21	
		G. J. LeBaron	S6-19	
		R. E. Lerch	B3-63	
		P. J. Mackey	B3-15	χ
		H. E. McGuire, Level 1	B3-63	
		W. A. Peiffer	S6-18	Х
		S. M. Price	H6-23	χ
		R. C. Roal	S6-17	Х
		J. R. Robertson	H6-30	
		F. A. Ruck III	H6-23	
		D. J. Washenfelder	S6-18	
		J. F. Williams Jr.	H6-24	Х
		EPIC	H6-08	Х
		RCRA File/GHL	H6-23	χ
_		GDC File/LB	H6-24	X